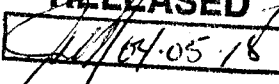


5/03

<b>DART AEROSPACE LTD</b>	<b>Work Order:</b>	<b>22075</b>
<b>Description:</b> Pedal Arm	<b>Part Number:</b>	<b>D3206-1</b>
<b>Dwg:</b> D3206 Rev. A	<b>Qty:</b>	<b>4</b>
<b>Ref:</b>		Page 1 of 1

Step	Location	Procedure	By	Date	Qty
1	DC	Issue Traveler	HA	04.12.08	4
2	PG	Issue P/O: <u>2007269</u> Email or Ship DXF file to vendor Laser Cut D3206-1 as per Dwg D3206 Material release note is required	VL	04.12.09	4
3	RG	Receive and Inspect for transit damage Ensure material release note is attached	CL	05/01/05	4
4	QC6	Inspect dimensions as per Dwg D3206	2	05.01.18	4
5	GA	Deburr if necessary	2	05.01.18	4
6	FP	Powder Coat Grey Sandtex (Ref: 4.3.5.6) per QSI 005 4.3	M	05 01 19	4
7	QC3	Inspect Powder Coat	2	05.01.15	4
8	ST	Identify and Stock	CL	05/01/20	4
9	AC	Cost / part <u>12.39</u>	SAC	05.01.21	4
10	DC	Close W/O <u>51.13</u> Inspect Level 21	HA	05.01.24	4

Rev	Date	Change	Revised By	Approved
A	04.04.15	New issue	KJ/RF	

**RELEASED**  
  
 04.05.18

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Design Mgr	Approval QC Inspector
			Initial Design Mgr	Action Description Design Mgr	Sign & Date			

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

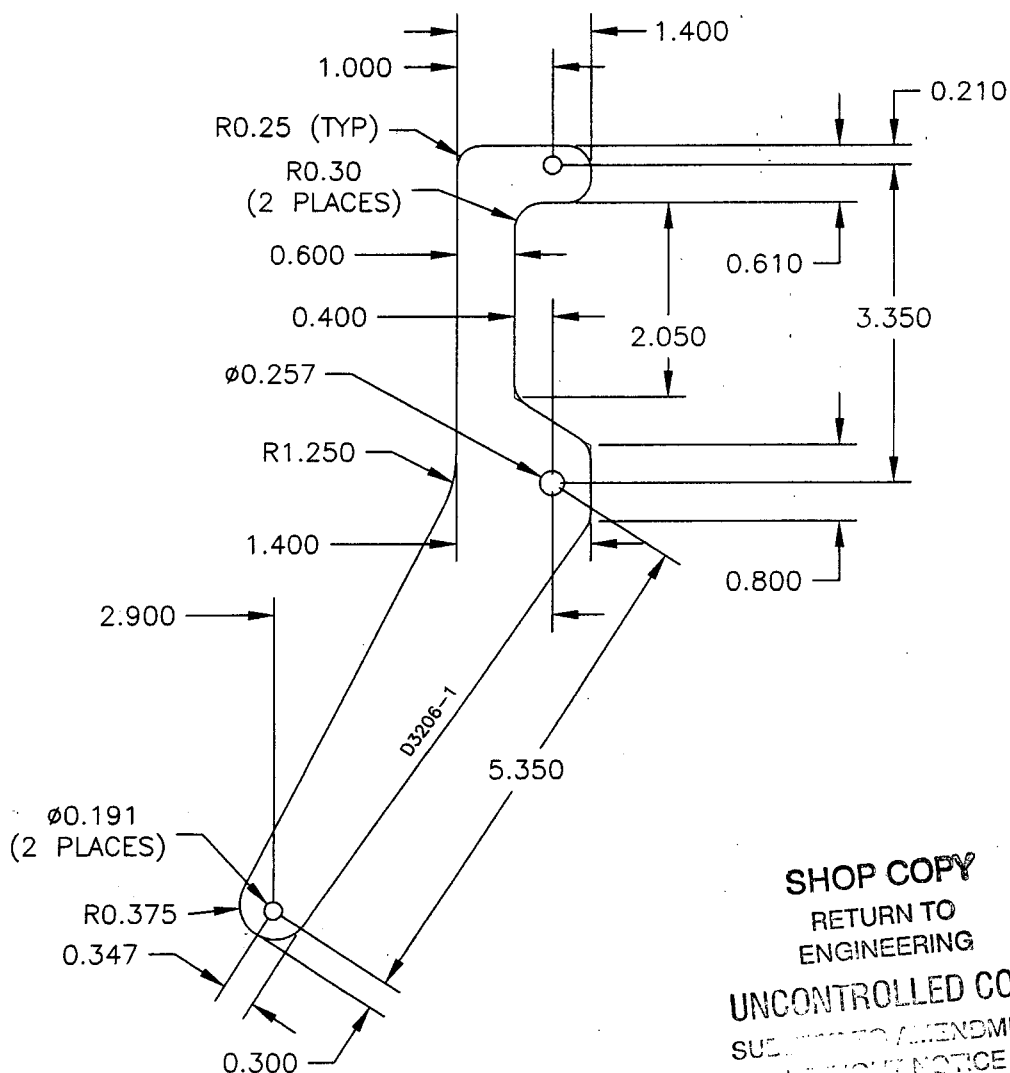
NOTE: Date & initial all entries

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. D3206	REV. A SHEET 1 OF 1
DATE 04.01.27		TITLE PEDAL ARM	SCALE 1:2
A	04.01.27	NEW ISSUE	

RELEASED  
04.04.05



NOTES:

- 1) BREAK ALL UNMARKED SHARP CORNERS 0.005 TO 0.010
- 2) MATERIAL: AISI 4130N SHEET, 11 GAUGE (M4130N-S125)
- 3) FINISH POWDER COAT GREY SANDTEX (REF. 4.3.5.6) PER DART QSI 005 4.3
- 4) ENGRAVE DART P/N AS SHOWN
- 5) ALL DIMENSIONS ARE IN INCHES
- 6) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

SHOP COPY  
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UNCONTROLLED COPY  
SUSCEPTIBLE TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 22075

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# Job Costing Report

Dart Aerospace Ltd.  
Hawkesbury

Dec 06, 2004  
11:09 am

Work Order No : 0022075  
Project Name : D3206-1  
Project For : WK503  
Work Order Type : Main  
Main WO Number :  
House Part Number : D3206-1  
Description : Pedal Arm  
Manufactured : Yes  
Amount Req'd :  
Amount Done :  
Start Date : 12-06-04  
Est Finish Date : 01-15-05  
Act Finish Date :  
Drawings Req'd : No  
Ok for Approval :  
Approval Rec'd :

Department Code:  
Burden Flags : NNNNNNNN  
WO Status : Open  
Invoice State : Not Invoiced  
Invoice Date :  
Invoice Number :  
Invoice Amount : 0.00  
Order Entry No :  
OE Value : 0.00  
Est Margin : 0.000%  
Actual Margin : 0.000%  
\$0 Posted to Finished Goods

	Estimated	Actual	Var. %	Posted	To Post
Material Cost :	0.00	0.00	0.00	0.00	0.00
Engineering Hours :	0.00	0.00	0.00		
Engineering Cost :	0.00	0.00	0.00	0.00	0.00
Production Hours :	0.00	0.00	0.00		
Production Cost :	0.00	0.00	0.00	0.00	0.00
Packaging Hours :	0.00	0.00	0.00		
Packaging Cost :	0.00	0.00	0.00	0.00	0.00
OverHead Hours :	0.00	0.00	0.00		
OverHead Cost :	0.00	0.00	0.00	0.00	0.00
CNC Hours :	0.00	0.00	0.00		
CNC :	0.00	0.00	0.00	0.00	0.00
Misc. Hours :	0.00	0.00	0.00		
Misc. :	0.00	0.00	0.00	0.00	0.00
Burden :	0.00	0.00	0.00		
Total Cost :	0.00	0.00	0.00		
Margin :	0.000	0.000			
Selling Cost :	0.00	0.00			

	Estimated	Actual
Labour Hrs/Amount Done :	0.00	0.00
Profits/(Loss) :	0.00	0.00

BENEDICT-MILLER INC.

LYNDHURST NJ

3200-1  
3/30/99

REPORT OF CHEMICAL AND PHYSICAL TESTS

INDUSTRIAL LASER CUTTING  
#7 - 7504 VANTAGE PLACE  
DELTA BRITISH COL  
CANADA V4G 1A5 00000-0000

P.O.#: 2303990-01  
ORD#/LN#: 489101/12.00

.125" HR ALLOY 4130 AQ ANN SHEET PO 36" X 72"  
2 PCS. 188 LBS. HEAT#: 2134252

Decarb=72/74 RA  
AMS 2301G \*J

AMS 6350H

CHEMICAL ANALYSIS

Carbon	(C)	.300
Manganese	(MN)	.440
Phosphorus	(P)	.008
Sulphur	(S)	.001
Silicon	(SI)	.220
Lead	(PB)	
Nickel	(NI)	.020
Chromium	(CR)	.830
Molybdenium	(MO)	.160
Copper	(CU)	.020
Vanadium	(V)	.005
Tungsten	(W)	
Tin	(SN)	.002
Cobalt	(CO)	
Aluminum	(AL)	.047

PHYSICAL PROPERTIES

Tensile	:	83990	PSI
Second Tensile	:	83990	PSI
Yield	:	56790	PSI
Second Yield	:	56790	PSI
Elongation	:	27	%-in 2 "
Second Elongation	:	27	%-in 2 "
%-Reduction-of-Area	:	%	
Second %-Red-Of-Area	:	%	
Bend-Test	:	OK	
Heat-Treat	:	35/34	
Hardness	:	82	RB
Macro	:	-	-
Decarb	:	8	
Grain-size	:	/ - / - /	
Jominy-Hardenability	:	.000	/ .000
Frequency/Severity	:		

We hereby certify that the chemical and physical properties shown above are a true copy of original test reports furnished to us by the producing mill covering the heat or lot from which the material was furnished.

BENEDICT MILLER

By

  
BARBARA EBELING  
CERTIFICATION SPECIALIST

8:51:20

033803

**\*\*\* WCI STEEL \*\*\***  
**METALLURGICAL SERVICES INC.**  
 1040 PINE AVE. SE  
 WARREN, OHIO 44483-8528

PAGE 1 of 8

MELTED AND MANUFACTURED IN USA  <b>CERTIFICATE OF TESTS</b>  SOLD TO: BENEDICT-MILLER INC P O BOX 812 LYNCHURST NJ 07071	PURCHASE ORDER: 08/07/98 5414  DATE/INVOICE: 12/02/98 688183759 WCI ORDER: 218 19 19789 01  SHIP TO: BENEDICT-MILLER INC MARIN AVE & ORIENT WAY LYNCHURST NJ 07071
---	---

I certify that the properties of the items tested are true and accurate. Material was sampled, tested and inspected in accordance with the methods prescribed in the governing specifications. Subject material also conforms to the requirements of the governing specifications.  
 This report shall not be reproduced except in full.

D.H. Emanuele  
 President


03:00:43

Item	Specification and Description																																																																						
1	HR SHEET ALLOY ULTIMET + SPEC AMS-8350 H AMS 2301 Q ASTM-A-808-91 AISI-4130 FINE GRAIN AIRCRAFT STRL Q ANN P&O T/R LIGHT WT LIFT SPECIAL TEST  .125N X 36.000 CE X 72  <table style="width: 100%;"> <tr> <td style="width: 25%;">HEAT-NO</td> <td style="width: 25%;">COIL NUMBERS</td> <td style="width: 25%;">H237501 3</td> <td style="width: 25%;"></td> </tr> <tr> <td>2134252</td> <td>H237501 1</td> <td>I338101R 1</td> <td></td> </tr> <tr> <td></td> <td>H237501 4</td> <td>I338101R 4</td> <td></td> </tr> <tr> <td></td> <td>I338101R 2</td> <td></td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="width: 15%;">HEAT-NO</td> <td style="width: 10%;">C</td> <td style="width: 10%;">MN</td> <td style="width: 10%;">P</td> <td style="width: 10%;">S</td> <td style="width: 10%;">SI</td> <td style="width: 10%;">CU</td> <td style="width: 10%;">NI</td> <td style="width: 10%;">CR</td> </tr> <tr> <td>2134252</td> <td>.30</td> <td>.44</td> <td>.008</td> <td>.001</td> <td>.22</td> <td>.02</td> <td>.02</td> <td>.83</td> </tr> <tr> <td></td> <td>NO</td> <td>SN</td> <td>AL</td> <td>V</td> <td>CS</td> <td>B</td> <td>TI</td> <td>ZR</td> </tr> <tr> <td></td> <td>.18</td> <td>.002</td> <td>.047</td> <td>.006</td> <td>.001</td> <td>.0002</td> <td>.003</td> <td></td> </tr> <tr> <td></td> <td>CA</td> <td>CE</td> <td>SB</td> <td>H</td> <td>N</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td></td> <td>.0019</td> <td></td> <td>.000</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> TI 01 C T/R FQA CERT TO INCLUDE ALL AQ TESTS REPORT TENSILE RESULTS FOR INFORMATION PURPOSES ONLY FAX NBR: 201 438 4882 ATTENTION OF: BARBARA EBELING  CH C 28/33 MN 40/80 P 0250MX S 0100MX SI 15/35 NI 25MX CR 80/1.10 MO 15/25 AL RPT CU 35MX AK FINE GRAIN	HEAT-NO	COIL NUMBERS	H237501 3		2134252	H237501 1	I338101R 1			H237501 4	I338101R 4			I338101R 2			HEAT-NO	C	MN	P	S	SI	CU	NI	CR	2134252	.30	.44	.008	.001	.22	.02	.02	.83		NO	SN	AL	V	CS	B	TI	ZR		.18	.002	.047	.006	.001	.0002	.003			CA	CE	SB	H	N	0				.0019		.000					
HEAT-NO	COIL NUMBERS	H237501 3																																																																					
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	.0019		.000																																																																				

WCI Steel Metallurgical Services Inc. is accredited by the American Association for Laboratory Accreditation in the fields of chemical and mechanical testing, certification # 0814-01 and 02 expiration 08/30/99.

CERTIFICATION  
 DATE: 12/11  
 BY:   
 FOR:

JUDITH A. REICHERT, NOTARY PUBLIC  
 STATE OF OHIO  
 MY COMMISSION EXPIRES 5/29/2003

*** W C I S T E E L *** METALLURGICAL SERVICES INC. 1040 PINE AVE. SE WARREN, OHIO 44483-8828		033803
PAGE 2 of 8		
MELTED AND MANUFACTURED IN USA		PURCHASE ORDER: 06/07/88 8414
CERTIFICATE OF TESTS		DATE/INVOICE: 12/02/88 888183759 WCI ORDER: 218 19 18789 01
SOLD TO: BENEDICT-MILLER INC P O BOX 812 LYNDHURST NJ 07071		SHIP TO: BENEDICT-MILLER INC MARIN AVE & ORIENT WAY LYNDHURST NJ 07071
I certify that the properties of the items tested are true and accurate. Material was sampled, tested and inspected in accordance with the methods prescribed in the governing specifications. Subject material also conforms to the requirements of the governing specifications. This report shall not be reproduced except in full.		D.H. Emanuele President 
Item	Specification and Description	03:00:43
HEAT NUMBER 2134252	RC 35 AFTER HEAT TREAT RC 34 AFTER HEAT TREAT  FREQUENCY SEVERITY .000 .000  MCQUAID NORMALITY EHN TYPE II NORMAL 8.0	
WCI Steel Metallurgical Services Inc. is accredited by the American Association for Laboratory Accreditation in the fields of chemical and mechanical testing, certification # 0814-01 and 02 expiration 06/30/89.		

JUDITH A. REICHERT, NOTARY PUBLIC  
 STATE OF OHIO  
 MY COMMISSION EXPIRES 5/29/2003

093803

**\*\*\* WCI STEEL \*\*\***  
**METALLURGICAL SERVICES INC.**  
 1040 PINE AVE. SE  
 WARREN, OHIO 44483-8528

PAGE 3 of 8  
  
 MELTED AND MANUFACTURED IN USA  
  
**CERTIFICATE OF TESTS**  
  
 SOLD TO:  
 BENEDICT-MILLER INC  
 P O BOX 812  
 LYNCHBURST NJ 07071

PURCHASE ORDER:  
 08/07/88 5414  
  
 DATE/INVOICE: 12/02/88 888183789  
 WCI ORDER: 218 18 18788 01  
  
 SHIP TO:  
 BENEDICT-MILLER INC  
 MARIN AVE & ORIENT WAY  
 LYNCHBURST NJ 07071

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D.H. Emanuele  
 President

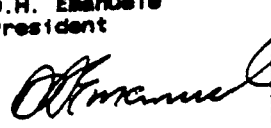
03:00:43

Item	Specification and Description					
	HEAT NUMBER	COIL NUMBER	YIELD PSI	TENSILE PSI	ELONG 2"	DIR
	2134252	H237501 1	58780	83880	27.4	T
	DECARB (INCHES) % .0001 00.0					
	RA 72 BEFORE GRIND, RA 74 AFTER GRIND  HARD- BEND NESS TEST DIR RB82 OK T					
			YIELD PSI	TENSILE PSI	ELONG 2"	DIR
		H237501 2	58780	83880	27.4	T
	DECARB (INCHES) % .0001 00.0					

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JUDITH A. REICHERT, NOTARY PUBLIC  
 STATE OF OHIO  
 MY COMMISSION EXPIRES 5/29/2013



*** WCI STEEL *** METALLURGICAL SERVICES INC. 1040 PINE AVE. SE WARREN, OHIO 44483-8828		033803
PAGE 4 of 8		
MELTED AND MANUFACTURED IN USA		PURCHASE ORDER: 08/07/98 8414
CERTIFICATE OF TESTS		DATE/INVOICE: 12/02/98 898183759 WCI ORDER: 218 18 18788 01
SOLD TO: BENEDICT-MILLER INC P O BOX 812 LYNCHURST NJ 07071		SHIP TO: BENEDICT-MILLER INC MARIN AVE & ORIENT WAY LYNCHURST NJ 07071
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Item		03:00:43
Specification and Description		
HEAT NUMBER 2134252	COIL NUMBER H237501	2 RA 72 BEFORE GRIND, RA 74 AFTER GRIND
HARD-NESS RB82		
BEND TEST OK		
DIR T		
YIELD PSI 58780		
TENSILE PSI 83880		
ELONG 2" 27.4		
DIR T		
DECARB (INCHES) % .0001 00.0		
RA 72 BEFORE GRIND, RA 74 AFTER GRIND		
HARD-NESS RB82		
BEND TEST OK		
DIR T		
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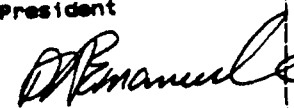
033803

**\*\*\* WCI STEEL \*\*\***  
**METALLURGICAL SERVICES INC.**  
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 WARREN, OHIO 44483-8528

PAGE 5 of 8

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D.H. Emanuele  
 President  


03:00:43

Item	Specification and Description																
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">HEAT NUMBER</td> <td style="text-align: center;">COIL NUMBER</td> <td style="text-align: center;">YIELD PSI</td> <td style="text-align: center;">TENSILE PSI</td> <td style="text-align: center;">ELONG 2"</td> <td style="text-align: center;">DIR</td> </tr> <tr> <td style="text-align: center;">2134252</td> <td style="text-align: center;">H237501 4</td> <td style="text-align: center;">58790</td> <td style="text-align: center;">83880</td> <td style="text-align: center;">27.4</td> <td style="text-align: center;">T</td> </tr> </table>	HEAT NUMBER	COIL NUMBER	YIELD PSI	TENSILE PSI	ELONG 2"	DIR	2134252	H237501 4	58790	83880	27.4	T				
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2134252	H237501 4	58790	83880	27.4	T												
	DECARB (INCHES) % .0001 00.0																
	RA 72 BEFORE GRIND, RA 74 AFTER GRIND																
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">HARD- NESS RB82</td> <td style="text-align: center;">BEND TEST OK</td> <td style="text-align: center;">DIR T</td> </tr> </table>	HARD- NESS RB82	BEND TEST OK	DIR T													
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JUDITH A. REICHERT, NOTARY PUBLIC  
 STATE OF OHIO  
 MY COMMISSION EXPIRES 5/29/2003

<p align="center">*** WCI STEEL ***  METALLURGICAL SERVICES INC.  1040 PINE AVE. SE  WARREN, OHIO 44483-8828</p>		033803																																				
PAGE 8 of 8																																						
MELTED AND MANUFACTURED IN USA	PURCHASE ORDER: 08/07/88 5414																																					
<b>CERTIFICATE  OF TESTS</b>	DATE/INVOICE: 12/02/88 888183758 WCI ORDER: 218 18 18788 01																																					
SOLD TO: BENEDICT-MILLER INC P O BOX 812 LYNDHURST NJ 07071	SHIP TO: BENEDICT-MILLER INC MARIN AVE & ORIENT WAY LYNDHURST NJ 07071																																					
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03:00:43																																						
Item	Specification and Description																																					
	<table border="0"> <tr> <td>HEAT NUMBER 2134282</td> <td>COIL NUMBER H237501</td> <td>5</td> <td>RA 72 BEFORE GRIND, RA 74 AFTER GRIND</td> </tr> <tr> <td colspan="2"></td> <td>HARD- NESS RB82</td> <td>BEND TEST OK</td> </tr> <tr> <td colspan="2"></td> <td>YIELD PSI 58330</td> <td>TENSILE PSI 82330</td> </tr> <tr> <td colspan="2"></td> <td>ELONG 2" 24.8</td> <td>DIR T</td> </tr> <tr> <td colspan="4">I338101R 1</td> </tr> <tr> <td colspan="4">RA 74 BEFORE GRIND, RA 72 AFTER GRIND</td> </tr> <tr> <td colspan="4">DECARS (INCHES) % .0001 00.0</td> </tr> <tr> <td colspan="2"></td> <td>HARD- NESS RB84</td> <td>BEND TEST OK</td> </tr> <tr> <td colspan="2"></td> <td>DIR T</td> <td></td> </tr> </table>		HEAT NUMBER 2134282	COIL NUMBER H237501	5	RA 72 BEFORE GRIND, RA 74 AFTER GRIND			HARD- NESS RB82	BEND TEST OK			YIELD PSI 58330	TENSILE PSI 82330			ELONG 2" 24.8	DIR T	I338101R 1				RA 74 BEFORE GRIND, RA 72 AFTER GRIND				DECARS (INCHES) % .0001 00.0						HARD- NESS RB84	BEND TEST OK			DIR T	
HEAT NUMBER 2134282	COIL NUMBER H237501	5	RA 72 BEFORE GRIND, RA 74 AFTER GRIND																																			
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JUDITH A. REICHERT, NOTARY PUBLIC  
STATE OF OHIO  
MY COMMISSION EXPIRES 5/28/2003

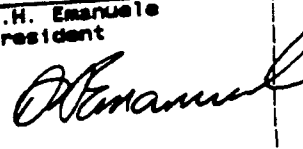
033803

\*\*\* WCI STEEL \*\*\*  
METALLURGICAL SERVICES INC.  
1040 PINE AVE. SE  
WARREN, OHIO 44483-8828

PAGE 7 of 8

MELTED AND MANUFACTURED IN USA  <b>CERTIFICATE OF TESTS</b>  SOLD TO: BENEDICT-MILLER INC P O BOX 812 LYNCHURST NJ 07071	PURCHASE ORDER: 08/07/88 8414  DATE/INVOICE: 12/02/88 888183758 WCI ORDER: 218 19 19788 01  SHIP TO: BENEDICT-MILLER INC MARIN AVE & ORIENT WAY LYNCHURST NJ 07071
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I certify that the properties of the items tested are true and accurate. Material was sampled, tested and inspected in accordance with the methods prescribed in the governing specifications. Subject material also conforms to the requirements of the governing specifications. This report shall not be reproduced except in full.

D.H. Emanuele  
President  


03:00:43

Item	Specification and Description	YIELD PSI	TENSILE PSI	ELONG 2"	DIR
HEAT NUMBER 2134252	COIL NUMBER I338101R 2	58330	82330	24.8	T
RA 74 BEFORE GRIND, RA 72 AFTER GRIND  DECARB (INCHES) % .0001 00.0  HARD-NESS R884 OK					
	I338101R 3	58330	82330	24.8	T
RA 74 BEFORE GRIND, RA 72 AFTER GRIND					

WCI Steel Metallurgical Services Inc. is accredited by the American Association for Laboratory Accreditation in the fields of chemical and mechanical testing, certification # 0814-01 and 02 expiration 06/30/89.

JUDITH A. REICHERT, NOTARY PUBLIC  
STATE OF OHIO  
MY COMMISSION EXPIRES 5/29/2003

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